

A' Cent
5. (Once Amended) A process as claimed in claim 1, wherein X¹ and X² represent a substituted or non-substituted bicyclic group with at least 5 ring atoms, of which one is a phosphorus atom.

C²
5 8. (Once Amended) A process as claimed in claim 1, wherein component (C) of catalyst system contains a protonic acid with a pKa value > 1 in aqueous solution at 25°C or a salt thereof.

C²
9. (Once Amended) A process as claimed in claim 1, where 1,3-butadiene is
10 converted into methyl pentenoate and/or dimethyl adipate.

C²
10. (Once Amended) A process to prepare caprolactam, Nylon 6, or Nylon 6,6 wherein a compound as prepared according to the process of claim 1, is used as an intermediate.

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C³
13. (Once Amended) Use of the catalyst system as claimed in claim 11, as a
carbonylation catalyst.

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Respectfully submitted,

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